

## Claims

- [c1] What is claimed is:
  1. An immersion fluid dispenser for microscopes that manually deposits the proper amount of fluid on the specimen (upright systems) or front lens (inverted systems) for immersion optics applications.
  2. The dispenser of claim 1, further comprising: a two-stage mechanical configuration that both positions the dispensing port from a remote location to the desired application point and then delivers the proper amount of immersion fluid.
  3. The dispenser of claims 1 and 2, further comprising: the ability to be combined with a fluid extraction system for the removal of the deposited fluid at the completion of immersion optics task.
  4. The dispenser of claim 1, 2, or 3, further comprising: the ability to automatically sense the particular objective lens in use and correspondingly modify the drop dispensing parameters.